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every ten miles. The tax at each station is small, but, when the distance traversed is great, it may reach fifty per cent of the gross value. No definite control can be had over the income of these stations, as there is little or no check upon them. In fact, the officers in charge generally get what they can from the transporter, whose willingness to pay depends very much upon whether he can evade the tax by going round the station. Often the carrier and collector wrangle over the price, and finally settle upon one much less than first demanded. The data for estimating the sums derived from this tax are more reliable than those of any other. The minister at Pekin gives between seventeen and eighteen million taels as the annual income from this source, and his figures are probably nearly correct. Of this amount, about one-half is derived from *likin* on salt and opium, the remainder from various other goods.

The entire amount of all the taxes which have been spoken of reaches the sum of sixty-eight million taels, or ninety-seven million dollars. The amount which each province has to furnish is estimated annually by the minister of finances. Should some extraordinary necessity, as famine or war, require larger contributions than are laid down in the annual budget, those provinces most likely to respond are called upon for additional amounts. When the last cash is exhausted from these sources, then recourse is had to extraordinary means, appeals to wealthy citizens, requests couched in such urgent terms that a disregard of them is perilous.

Not many reforms can be expected in China's financial systems. The absolute monarchical government, the hordes of mandarins who find their living in the present systems, and the yet general distrust of foreign advice and counsel, all hinder the empire from throwing off the shackles that now impede her every movement. S. W.

DRAWING IN PUBLIC SCHOOLS.

FOR many years past, those who are most interested in improving the elementary education of this country have been agreed that far more attention ought to be bestowed upon the art of drawing. Those especially who are interested in schools for manual training and in scientific schools have been firm in demanding that all young scholars should be encouraged, if not required, to attain some proficiency in this useful art. Many have insisted that drawing should be placed next in importance to reading, writing, and arithmetic,

Industrial and high art education in the United States.
By I. EDWARDS CLARKE. Washington, U. S. Bureau of education, 1885.

and have regretted that the children in public schools have been forced to give so much time to acquiring a familiarity with geographical nomenclature, when an equal amount of labor would have trained the eye to observe with minute accuracy, and the hand to delineate with truth that which the eye has seen. Notwithstanding this unanimity of opinion among those who are qualified to give advice, the schools of the country are in general far from doing what they ought, to provide instruction in drawing. Great advances have been made within the past fifteen or twenty years; and in certain schools, and even in certain groups of schools, good results have been attained. It is now most important that the experience which has been acquired, and the methods which have been successfully employed, should be ascertained, compiled, and promulgated in such ways as will secure the widest consideration.

For many years past, Mr. Isaac Edwards Clarke, of the Bureau of education, has been engaged in compiling such a report. Two or three times his work has been made ready for the printer; but its issue has been postponed for the lack, we believe, of adequate appropriations from congress. At length we have before us a volume of a thousand pages, distributed in four parts. There is, first, a series of papers by the author on 'The democracy of art'; then an account of the efforts which have been made to secure instruction in drawing in the public schools; third, a series of statistical tables illustrating the condition of art schools and museums; and, finally, an appendix, occupying four hundred pages, and including a great variety of reports, lectures, and schedules pertinent to the subject of art education. The work is very comprehensive, being evidently designed for very different sorts of readers, — those who are interested in the historical aspects of the subject, those who need to be persuaded of the importance of art education, and those who require to be enlightened in respect to methods of instruction which have been employed. By the use of the elaborate index, readers of all these classes may derive from this volume much useful information not otherwise accessible; but the author would have rendered an additional service if he had added with greater freedom his own critical comments upon the various plans which have been adopted. His preliminary essays reveal the mind of one who has long been familiar with the progress of the fine arts, and who has been accustomed to reflect upon their relation to the progress of society. He points out with clearness the influence of taste and skill upon the enjoyments, the trade, and the prosperity of the people. He touches with facility upon all the indications which are to be seen, especially

in architecture and manufactures, of American progress. He writes with enthusiasm and sympathy, aiming to encourage what is good rather than to condemn what is bad. He has apparently in view as his readers the managers of public education, and he strives to incite them by the description of what has been accomplished, and by gently persuasive illustrations, to 'lend a hand' in the new educational movement. His purpose is deserving of the highest commendation; and the facts and figures which he has brought together, with a vast amount of painstaking, will prove to be a store of arguments and examples to be drawn upon by innumerable commissioners, superintendents, and directors of education in schools of every grade, from the kindergarten to the university.

TRIUMPHANT DEMOCRACY.

MR. ANDREW CARNEGIE is well known as a shrewd and successful business man, a capitalist of great wealth, a traveller of experience, and an American citizen of public spirit. He is an excellent type of a class more numerous and more influential in America than in any other country of the world: he is eminently a practical man. There is a wide-spread impression that the practical man is not only more competent to carry on affairs, but that he has a great advantage over the theorist, buried in his books and unacquainted with human nature, in the theorist's own walks in life; that he can, if he tries, run a better newspaper, secure better legislation, and write a better book. When the practical man, therefore, enters the field of literature, and discusses important public questions, much is expected of him: his knowledge of affairs should give him a broader point of view; his observation should be keener; his information should be more exact and more complete; he should have a better grasp of the principles which have grown to be axiomatic, a greater power of combining facts and principles into general statements; his views should be more vigorous and more lucid than those of the ordinary writer.

Judged by this high standard, it must be frankly confessed that 'Triumphant democracy' is not successful. The author's point of view is sufficiently set forth in the dedication, the keynote of the whole work: "To the BELOVED REPUBLIC under whose equal laws I am made the peer of any man, although denied political equality by my native land, I dedicate this book with an intensity of gratitude and admiration which the native-born citizen can neither feel nor under-

Triumphant democracy; or, Fifty years' march of the republic. By ANDREW CARNEGIE. New York, Scribner, 1886. 8°.

stand." To make the native-born citizen appreciate the full measure of his birthright, and to teach the foreigner the blessings of the American system, the first requisite is accuracy of statement. If grave errors of observation and of statement of fact are found, the effect of the book is marred, if not wholly taken away. What will the native prohibitionist think of the statement that 'drunkenness is quite rare' among American workmen (p. 125)? What will the Norwegian say to the assertion that 'the lumber-trade is an industry peculiarly American' (p. 219)? How will the man who remembers the Mexican war accept the glorification of "the American people [who] have never taken up the sword except in self-defence or in defence of their institutions" (p. 265)? Can the author ever have been in Germany without knowing that the United States is not "the country containing the smallest proportion of illiterates" (p. 489)? Does any man who thoughtfully considers the present state of public feeling in France believe that 'the reign of the masses is the road to universal peace' (p. 102)? Is the practical man satisfied that "the theatres and opera-houses of the principal cities in America are, of course, much superior to those in Europe because they were built more recently" (p. 336)? The passages just quoted are fair examples of recurring errors, mistakes, incomplete statements, and hasty generalizations.

The idea of the book—to put into readable, entertaining form the causes of the marvellous growth of America—the idea is not a bad one: the execution is totally inadequate, and inadequate for a very simple reason. Mr. Carnegie has been too busy in doing other things to give the necessary time for reading and reflection: his knowledge is insufficient. That the United States is triumphant we all know: that the triumph is wholly or largely due to democracy may or may not be true; but Mr. Carnegie has not proved it: if it is ever to be proved, it must be by the despised theorists, who are willing to spend a lifetime in grovelling after the dry details of the history of many nations.

A. B. HART.

PRESTWICH'S GEOLOGY.

THE reputation of Professor Prestwich as a geologist lends an especial interest to the appearance of a general treatise from his hands, embodying the facts and theories that his long experience has led him to regard of the greatest value to the student. The first volume of the work, lately issued by the Clarendon press, treats of subjects chemical and physical. The second volume, not

Geology, chemical, physical, and stratigraphical. By JOSEPH PRESTWICH. Vol. I. Oxford, Clarendon pr., 1886. 8°.